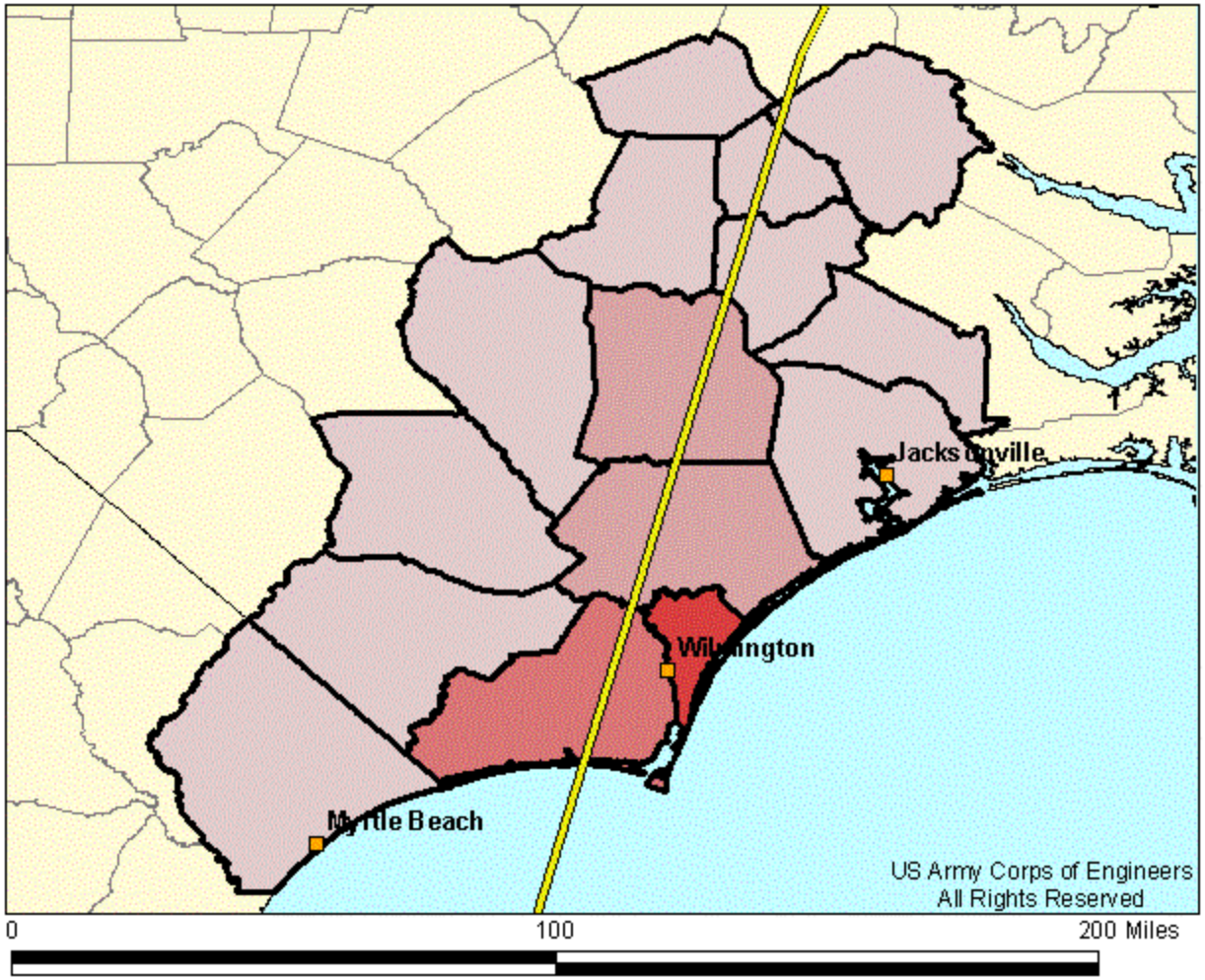
US Army Corps of Engineers

Hurricane Ernesto 2006 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

North Carolina - 1,328,000 Yards
South Carolina - 84,000 Yards

Model results per County on following page

This model is based on a Category 1 storm making landfall near Holden Beach, NC.

Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (1100 EDT 05/14/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ernesto 2006 Debris Model

Generated By:
Siemsen, LRL 1130 EDT 05/14/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ernesto 2006 Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
North Carolina		Bladen	11,000
		Brunswick	271,000
		Columbus	25,000
		Duplin	103,000
		Greene	19,000
		Jones	4,000
		Lenoir	65,000
		New Hanover	566,000
		Onslow	73,000
		Pender	147,000
		Pitt	4,000
		Sampson	16,000
		Wayne	24,000
		Wilson	< 1,000
North Carolina	1,328,000		
South Carolina		Horry	84,000
South Carolina	84,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane Ernesto 2006 Debris Model

Generated By:
Siemsen, LRL 1130 EDT 05/14/2008

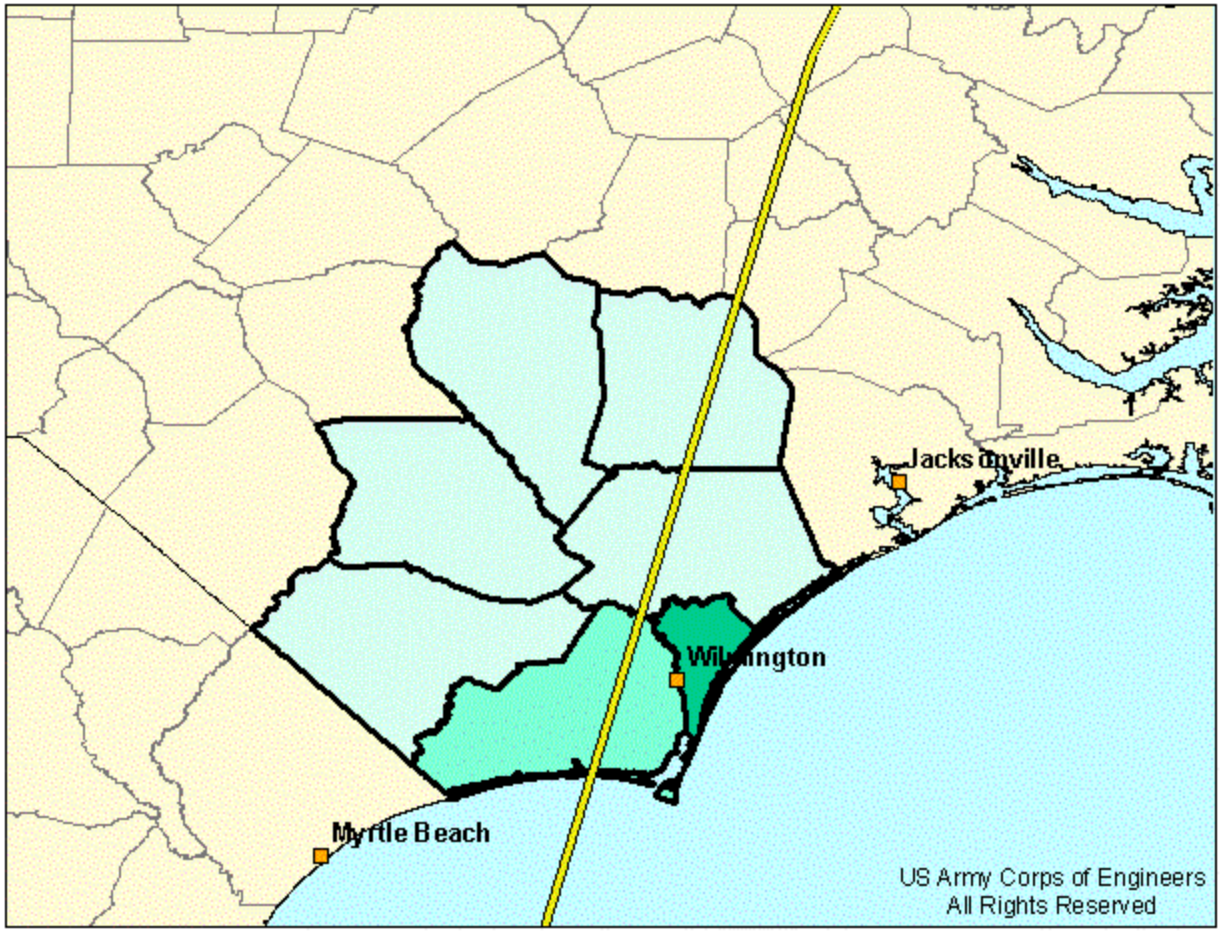
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ernesto 2006 Commodities Model

Landfall Plus About **12** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
NC – 7/13/26 Truckloads

Model results per County on following page

This model is based on a Category 1 storm making landfall near Holden Beach, NC.

Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC ***(1100 EDT 05/14/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ernesto 2006 Commodities Model	
Generated By: Siemsen, LRL 1130 EDT 05/14/2008	
Sources: HURREVAC LRL-DEBRIS	Page 3 of 12

US Army Corps of Engineers

Hurricane Ernesto 2006 Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
North Carolina		Bladen	1
		Brunswick	5
		Columbus	1
		Duplin	2
		New Hanover	13
		Pender	3
		Sampson	1
North Carolina	26		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ernesto 2006 Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 05/14/2008

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto 2006 Temporary Roofing Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!

Post Landfall Temporary Roofing Model Results

North Carolina - 4,100

Model results per County on following page

This model is based on a Category 1 storm making landfall near Holden Beach, NC.

Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (1100 EDT 05/14/2008) forecast. Temporary roofing is based on 3% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ernesto 2006 Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 5 of 12

US Army Corps of Engineers

Hurricane Ernesto 2006 Temporary Roofing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
North Carolina		Bladen	< 100
		Brunswick	900
		Columbus	< 100
		Duplin	300
		New Hanover	2,400
		Pender	500
		Sampson	< 100
North Carolina	4,100		

Temporary roofing is based on 3% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ernesto 2006 Roofing Model

Generated By:
Siemsen, LRL 1130 EDT 05/14/2008

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto 2006 Temporary Housing Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!

Post Landfall Temporary Housing Model Results

Model results per County on following page

This model is based on a Category 1 storm making landfall near Holden Beach, NC.

Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (1100 EDT 05/14/2008) forecast. Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ernesto 2006 Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 7 of 12

US Army Corps of Engineers

Hurricane Ernesto 2006 Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
		No Temporary Housing need expected	

Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ernesto 2006 Housing Model

Generated By:
Siemsen, LRL 1130 EDT 05/14/2008

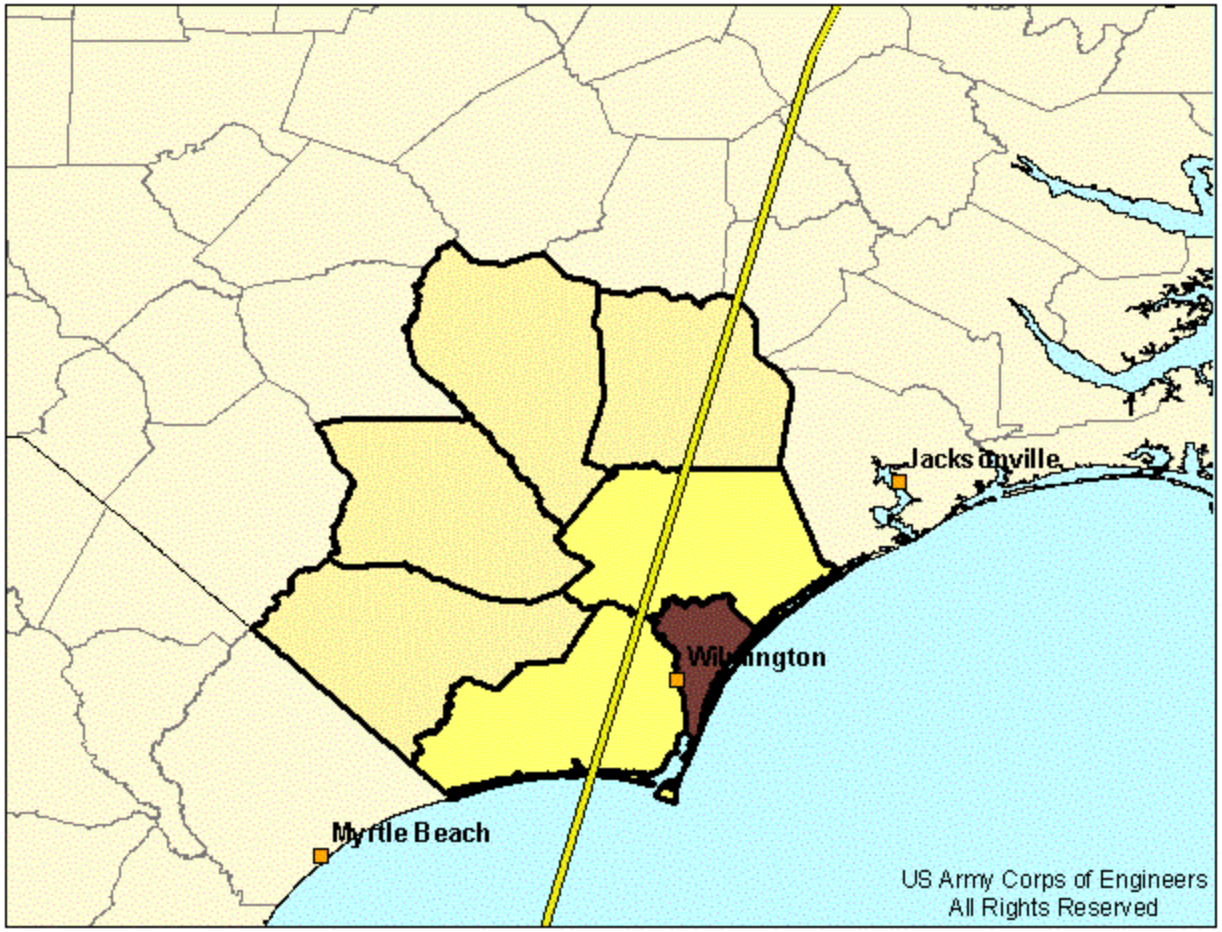
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ernesto 2006 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

North Carolina - 322,000

Model results per County on following page

This model is based on a Category 1 storm making landfall near Holden Beach, NC.

Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (1100 EDT 05/14/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ernesto 2006 Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 9 of 12

US Army Corps of Engineers

Hurricane Ernesto 2006 Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
North Carolina		Bladen	< 1,000
		Brunswick	72,000
		Columbus	3,000
		Duplin	22,000
		New Hanover	183,000
		Pender	42,000
		Sampson	< 1,000
North Carolina	322,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ernesto 2006 Population Model

Generated By:
Siemsen, LRL 1130 EDT 05/14/2008

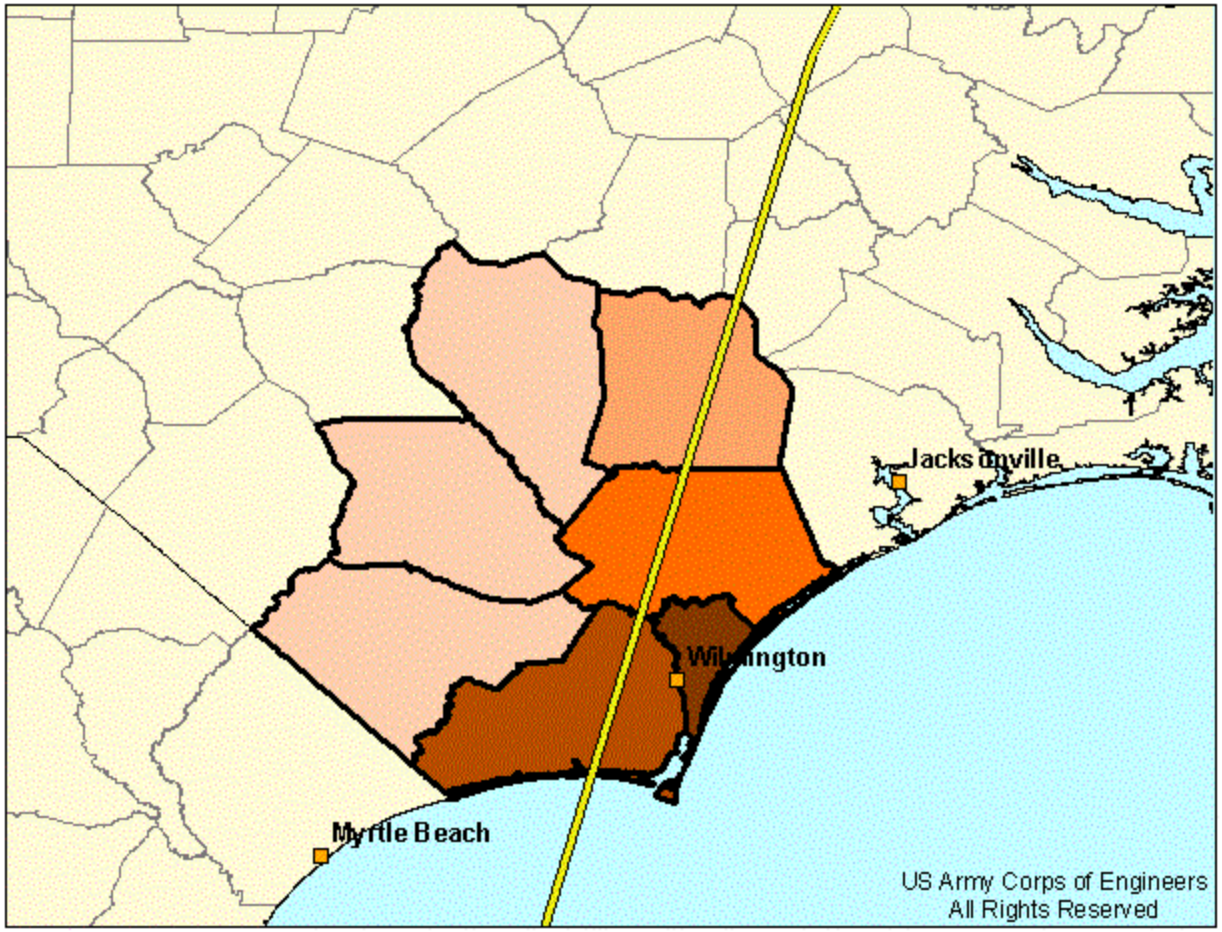
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto 2006 Households Model

US Army Corps of Engineers

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

North Carolina - 133,000

Model results per County on following page

This model is based on a Category 1 storm making landfall near Holden Beach, NC.

Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall near Holden Beach, NC. These projections are based on information from the NHC (1100 EDT 05/14/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2006 values).

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Hurricane Ernesto 2006 Households Model	
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Sources: HURREVAC LRL-DEBRIS	Page 11 of 12

US Army Corps of Engineers

Hurricane Ernesto 2006 Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
North Carolina		Bladen	< 1,000
		Brunswick	30,000
		Columbus	< 1,000
		Duplin	9,000
		New Hanover	78,000
		Pender	16,000
		Sampson	< 1,000
North Carolina	133,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2006 values.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ernesto 2006 Households Model

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Sources:
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LRL-DEBRIS